

05/12/2004

10/606,068

(FILE 'HOME' ENTERED AT 15:19:02 ON 12 MAY 2004)

FILE 'WPIX, INPADOC, JAPIO, PATOSEP, PATOSWO' ENTERED AT 15:19:22 ON 12
MAY 2004

L1

E US20040032261/PN
2 S E3

L1 ANSWER 1 OF 2 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
 AN 2004-145659 [15] WPIX
 DNN N2004-116045
 TI Magnetic resonance data distortions correction method for medical application, involves processing distortion parameters using transformation parameters obtained by correlating object of interest e.g. patient's head.
 DC S01 S03 S05 T01
 IN BURKHARDT, S; SCHWEIKARD, A
 PA (STYC) STRYKER LEIBINGER GMBH & CO KG; (BURK-I) BURKHARDT S; (SCHW-I) SCHWEIKARD A
 CYC 31
 PI EP 1385018 A1 20040128 (200415)* EN 22
 R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
 US 2004032261 A1 20040219 (200415) <--
 ADT EP 1385018 A1 EP 2002-16346 20020725; US 2004032261 A1 US 2003-606068 20030625
 PRAI EP 2002-16346 20020725
 AN 2004-145659 [15] WPIX
 DNN N2004-116045
 TI Magnetic resonance data distortions correction method for medical application, involves processing distortion parameters using transformation parameters obtained by correlating object of interest e.g. patient's head.
 DC S01 S03 S05 T01
 IN BURKHARDT, S; SCHWEIKARD, A
 PA (STYC) STRYKER LEIBINGER GMBH & CO KG; (BURK-I) BURKHARDT S; (SCHW-I) SCHWEIKARD A
 CYC 31
 PI EP 1385018 A1 20040128 (200415)* EN 22 G01R033-565
 R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
 US 2004032261 A1 20040219 (200415) G01V003-00 <--
 ADT EP 1385018 A1 EP 2002-16346 20020725; US 2004032261 A1 US 2003-606068 20030625
 PRAI EP 2002-16346 20020725
 IC ICM G01R033-565; G01V003-00
 AB EP 1385018 A UPAB: 20040302
 NOVELTY - The distortion parameters are processed using the distortion parameters and transformation parameters obtained by correlating the object of interest such as patient's head and specific generic objects.
 DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
 (1) computer program product comprising program code for performing magnetic resonance data distortions correction; and
 (2) apparatus for correcting distortions in magnetic resonance data.
 USE - For correcting magnetic resonance (MR) data distortions in medical applications such as tumor diagnosis, bone surgery using computer tomography (CT) imaging system, radio therapy planning (RTP). Also for use in material science.
 ADVANTAGE - The geometric accuracy is of high importance since an accurate beam positioning is obtained which is essential for optimal tumor coverage facilitates, and accelerates the correction of distorted MR data of object of interest in a faster and easier manner. Bones and soft tissue are easily separated by simple mechanisms.

05/12/2004

10/606,068

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram explaining the correction of distorted MR data.

Dwg.2/8

FS EPI
FA AB; GI
MC EPI: S01-E02A2A; S01-E02A8C; S03-E07A; S05-D02B2; T01-J06A; T01-J10B1;
T01-S03

L1 ANSWER 2 OF 2 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1

AN 229972743 INPADOC ED 20040325 EW 200413 UP 20040402 UW 200414
TI Correcting geometry and intensity distortions in MR data.
IN SCHWEIKARD ACHIM; BURKHARDT STEFAN
INS SCHWEIKARD ACHIM; BURKHARDT STEFAN
INA DE; DE
PA SCHWEIKARD ACHIM; BURKHARDT STEFAN
PAS SCHWEIKARD ACHIM; BURKHARDT STEFAN
PAA DE; DE
DT Patent
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)
PI **US 2004032261** **AA 20040219**
AI US 2003-606068 A 20030625
PRAI EP 2002-16346 A 20020725
OSDW 2004-145659

LEVEL 1

AN 229972743 INPADOC ED 20040325 EW 200413 UP 20040402 UW 200414
TI Correcting geometry and intensity distortions in MR data.
IN SCHWEIKARD ACHIM; BURKHARDT STEFAN
INS SCHWEIKARD ACHIM; BURKHARDT STEFAN
INA DE; DE
PA SCHWEIKARD ACHIM; BURKHARDT STEFAN
PAS SCHWEIKARD ACHIM; BURKHARDT STEFAN
PAA DE; DE
DT Patent
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)
PI **US 2004032261** **AA 20040219**
AI US 2003-606068 A 20030625
PRAI EP 2002-16346 A 20020725
OSDW 2004-145659
ICM (7) G01V003-00
EPC G01R33/565C
NCL 324309; X324318; X324307

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2004/May W1

(c) format only 2004 The Dialog Corp.

*File 155: Medline has been reloaded. Accession numbers have changed. Please see HELP NEWS 154 for details.

File 2:INSPEC 1969-2004/May W1

(c) 2004 Institution of Electrical Engineers

*File 2: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 5:Biosis Previews(R) 1969-2004/May W2

(c) 2004 BIOSIS

File 6:NTIS 1964-2004/May W2

(c) 2004 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2004/May W1

(c) 2004 Elsevier Eng. Info. Inc.

File 73:EMBASE 1974-2004/May W1

(c) 2004 Elsevier Science B.V.

File 987:TULSA (Petroleum Abs) 1965-2004/May W3

(c) 2004 The University of Tulsa

File 94:JICST-EPlus 1985-2004/Apr W3

(c) 2004 Japan Science and Tech Corp(JST)

File 35:Dissertation Abs Online 1861-2004/Apr

(c) 2004 ProQuest Info&Learning

File 144:Pascal 1973-2004/May W1

(c) 2004 INIST/CNRS

File 105:AESIS 1851-2001/Jul

(c) 2001 Australian Mineral Foundation Inc

*File 105: This file is closed (no updates)

File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Apr

(c) 2004 The HW Wilson Co.

File 58:GeoArchive 1974-2004/Nov

(c) 2004 Geosystems

*File 58: The update code has been incremented to reflect this ren
this file's level of currency.

File 34:SciSearch(R) Cited Ref Sci 1990-2004/May W1

(c) 2004 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

(c) 1998 Inst for Sci Info

File 292:GEOBASE(TM) 1980-2004/May B1

(c) 2004 Elsevier Science Ltd.

File 89:GeoRef 1785-2004/May B1

(c) 2004 American Geological Institute

*File 89: Truncate SH codes for a complete retrieval.

File 65:Inside Conferences 1993-2004/May W2

(c) 2004 BLDSC all rts. reserv.

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200429

(c) 2004 Thomson Derwent

*File 350: For more current information, include File 331 in your search.
Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2003/Dec(Updated 040402)

(c) 2004 JPO & JAPIO

*File 347: JAPIO data problems with year 2000 records are now fixed.
Alerts have been run. See HELP NEWS 347 for details.

Set	Items	Description
S1	1698294	MRI OR MAGNETIC(1W) (IMAG? OR IMAGING) OR MAGNETIC(W) RESONAN? OR NMR OR NUCLEAR()MAGNETIC()RESONANCE OR FTNMR OR FTMRI - OR MAGNETORESONANCE OR PMR OR PROTON(W)MAGNETIC(W) RESONAN? OR MR() (IMAGE? OR IMAGING)
S2	39161	MC=(S01-E02A2 OR S03-E07A OR S01-E02A8A OR S01-E02A1 OR S0-3-E07C OR S05-D02B1 OR S03-C02F1) OR IC=(G01R-003 OR G01N-024- /08 OR G01V-003/A75) OR CC=(A0758 OR A8760I OR B7510N)
S3	1711984	S1:S2
S4	23255	(CORRECT? OR ADJUST? OR PARAMETER? ?) (3N)DISTORT?
S5	107152	(WAVEFORM? OR WAVE() FORM? OR SIGNAL?) (3N)CHANG?
S6	130255	S4:S5
S7	3500	IC=(G01V-003/00 OR G01V-033/565C)
S8	11145	TRANSFORMAT?(3N)PARAMETER? ?
S9	961152	MAGNET?(3N)FIELD? ?
S10	47400	(MAGNET? OR SUSCEPTIBIL?) (3N)DISTRIBUT?
S11	74	(MAGNET? OR FIELD? ?) (3N)INHOMOGENIT?
S12	143658	MAGNET?(3N) (INHOMOGENIT? OR SUSCEPTIBIL?)
S13	1096602	S9:S12
S14	811933	COMPUTER?()TOMOGRAPH? OR CT OR FLUOROSCOPI?
S15	10453	S3 AND S6
S16	55552	S15 AND S13
S17	221	S16 AND S14
S18	0	S17 AND S7
S19	7	S17 AND S4
S20	2	RD (unique items)
S21	221	S17
S22	0	S21 AND S5
S23	0	S21 AND S8
S24	192	S21 AND S9
S25	4	S24 AND S10
S26	2	RD (unique items)
S27	188	S24 NOT S25
S28	0	S27 AND S11
S29	1	S27 AND S12
S30	187	S27 NOT S29
S31	187	S30 AND S14
S32	17	S14 AND S7
S33	17	RD (unique items)
S34	17	S33 NOT S19,S25,S29
S35	4	S34 AND S13
S36	13	S34 NOT S35
S37	1	S36 AND S6
S38	12	S36 NOT S37
S39	98	S6 AND S8
S40	3	S39 AND S13
S41	3	RD (unique items)
S42	95	S39 NOT S40
S43	9	S42 AND S3
S44	4	RD (unique items)
S45	3	S44 NOT S19,S25,S29,S33,S40
S46	281	S3 AND S8
S47	4	S46 AND S9
S48	4	RD (unique items)
S49	277	S46 NOT S47
S50	1	S49 AND S10

05/12/2004

10/606,068

S51	276	S49 NOT S50
S52	0	S51 AND S11
S53	3	S51 AND S12
S54	3	RD (unique items)